DELTA
Academies Trust

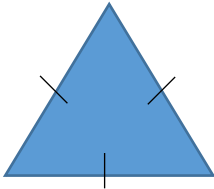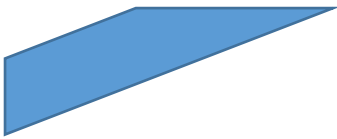## SHAPE NAMES AND FACTS
Name the shapes:

ORDERING NUMBERS (DECIMALS & NEGATIVES)
Put these in ascending order:

a) -10   6   5   -3   1

b) 1.14   1.107   1.132   1.21   1.009

LISTING OUTCOMES/ PROBABILITY
Use one of the words below to describe each of the outcomes:
  Likely, Impossible, Certain, Even Chance, Unlikely

a) The next baby born in England will be a boy.

b) You will win the lottery on Saturday.

c) It will snow in March in Yorkshire.

ROUNDING AND ESTIMATION
Round these numbers to degree given.

a) 6325   (nearest 100)

b) 6325   (nearest 10)

c) 6325   (nearest 1000)

FACTORS/MULTIPLES AND NUMBER PROPERTIES
Work out:

4^2

7^2

11^2

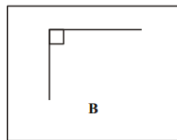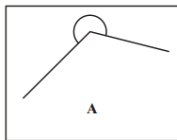3^3

CALCULATOR METHOD
Using a calculator, work out:

$$\frac{2.4^2}{0.6}$$

a) Write out all the digits on your calculator display.

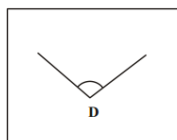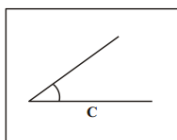b) Give your answer to 1 decimal place.

BASIC ANGLE FACTS
Which letter matches each of these angle types?

Acute _____
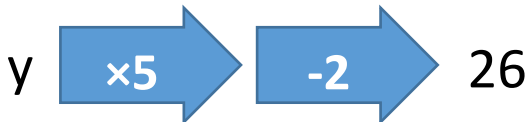
Reflex _____

Right-angle
_____

Obtuse _____

A

B

C

D

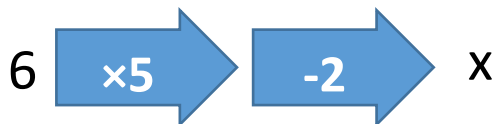## SPOTTING PATTERNS/SEQUENCES

For the sequences below find the next two terms:

a) 9, 11, 13, 15, 17, ____, ____

b) 24, 20, 16, 12, 8, ____, ____

c) 14, 11, 8, 5, 2, ____, ____

FUNCTION MACHINES
Find x and y

6 →(×5)→(-2)→ x

y →(×5)→(-2)→ 26

METRIC CONVERSIONS
Convert the following measures.

a) 3 kg = _____ g

b) 6.5 kg = _____ g

c) 4000 g = _____ kg

SUBSTITUTION
Given a = -2, b = 5 and c = 10
Work out:

a) 5b

b) 3a

c) ab

RATIO (SIMPLIFY AND RECIPES)
The recipe for pancakes for two people is:
1 egg
100g flour
150ml milk

How much milk do you need for:

a) 4 people
b) 8 people
c) 20 people

BIDMAS
Put brackets in to make these calculations true.
a) $3 + 4 \times 5 = 35$

b) $8 \times 2 + 3 = 40$

FOUR RULES
Work out:
a) 36×100

b) 8.4×10

c) $92 \div 10$

d) 1.9×100

COLLECT LIKE TERMS/MULTIPLY TERMS
Simplify
a) 2x + 9x + x + 3x

b) z × z × z

c) 2b × 2b × 2b

PERCENTAGES

Show how you would work out 35% of 420

PICTOGRAMS

The chart shows information about the number of goals scored in a football league each week.

First week	
Second week	
Third week	
Fourth week	
Fifth week	

Key: represents 4 goals

a)   Find the number of goals scored in the first week.

b)   Find the number of goals scored in the third week.
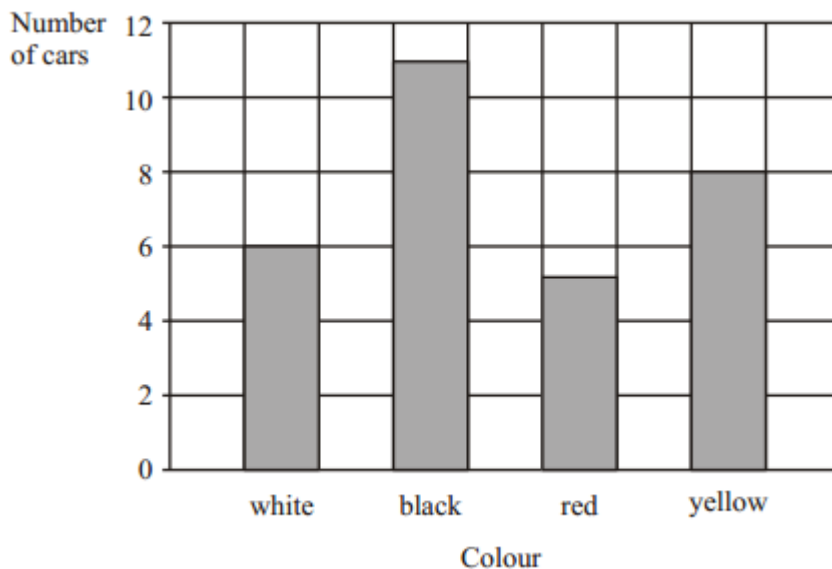
In week four there were 8 goals scored
In week five there were 5 goals scored

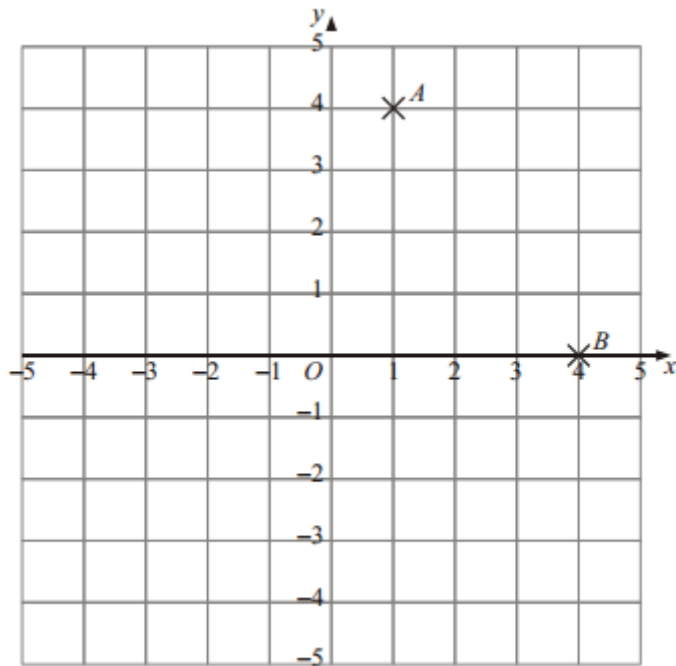c)   Complete the pictogram for the fourth and fifth week

BAR CHARTS

The table shows the colour of cars seen outside school one morning.

a)   How many red cars were there?

b)   What is the most popular colour of car?

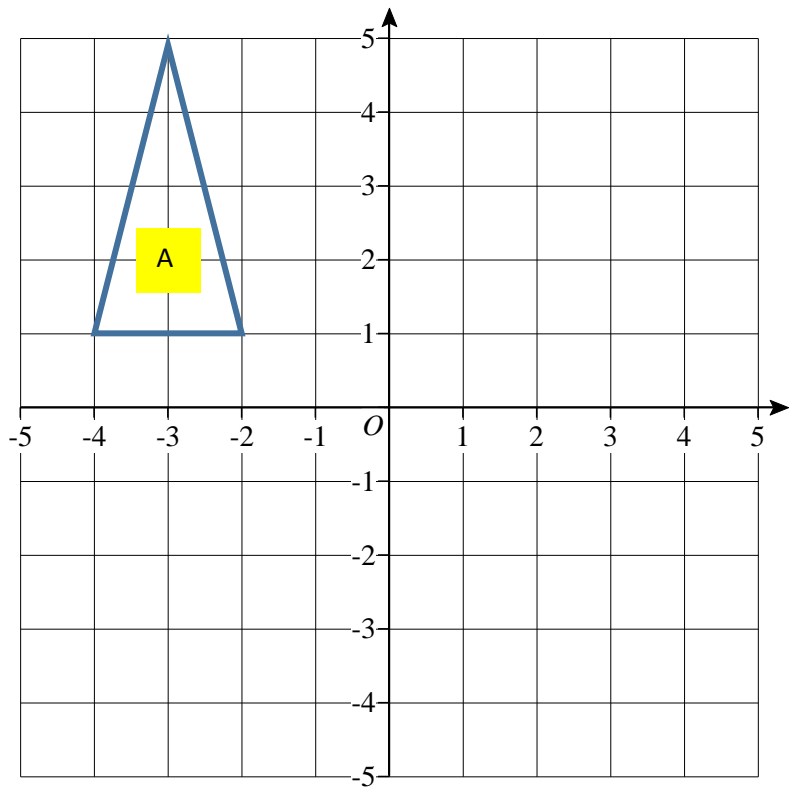c)   How many cars were seen in total?

COORDINATES/ LINEAR GRAPHS

a) Write down the coordinates of point A.

b) Write down the coordinates of point B.

c) On the grid plot the point (3, 2), label it P.

d) On the grid plot the point (-4, 3), label it Q.

TRANSFORMATIONS

a) Reflect the shape A in the y-axis.

b) Translate shape A in the vector $\begin{pmatrix} 7 \\ -5 \end{pmatrix}$